

Steamy Department

March 3, 1855

Sir

Agreeably to the request in your letter of Feb. 22^d, the estimate of Morris & Co. of the cost of work to be done in fitting up the laboratory, is herewith returned to you.

In your letter of March 1st, you announce that you have commenced the manufacture of fusible alloys, and you add "assuming that they are more urgently required for the high pressure boilers of the western waters, I have commenced with the highest." It is to only high pressure boilers that the law requires that fusible alloy shall be applied.

Mr Copeland, the Supervising Inspector at New York, is of opinion that the following amounts of alloy, will be wanted to begin with.

100 lbs of 50 pounds pressure,

100 " " 60 " "

150 " " 70 " "

150 " " 80 " "

200 " " 90 " "

200 " " 100 " "

500 lb of 110 pound perfume

1000 " " 120 " "

1000 " " 130 " "

800 " " 140 " "

500 " " 150 " "

500 " " 160 " "

He is of opinion that about one fourth of the
amount of alloy, fusing at from 110 to 160 pound
perfume, is all that is immediately required.

Very Respectfully

James M. Wm

Secretary of the Treasury.

In the

letter & Refiner

U. S. Mint

Philadelphia

1858
March 30
Jas Guthrie
Washington
D.C.